ACTA MATHEMATICA SINICA —CHINESE MATHEMATICS

数 学 学 报

INDEX FOR VOLUME FIVE

Volume 14, (1964), Numbers 1–4 of the original Volume 5 (1964), Numbers 1–4 of the translation

Number 1

	Chinese page	Page
D. Mangeron and L. E. Krivošeĭn D. 曼日隆 L. E. 克里沃申 *Some problems concerning the structure of integro-differential equations*	(1)	1
Li Ming-zhong* (Li Ming-chung) 李明忠 *An existence theorem and a representation formula for generalized solutions of second-order elliptic differential equations*	(7)	8
Li Zhong and Wen Guo-chun (Li Chung and Wen Kuo-ch'un) 李 忠 闻国椿 *On the Cauchy formula for elliptic systems of linear partial differential equations of the first order*	(23)	25
Jiang Li-shang (Chiang Li-shang) 姜礼尚 *The two-phase Stefan problem. II*	(33)	36
Sun Shun-hua (Sun Shun-hua) 孙顺华 *The equations of the closed trajectories in rotated vector fields*	(50)	54
Yong Er-qian (Yung Erh-ch'ien) 容尔謙 *On the sewing theorem*	(58)	63
Bai Zheng-guo (Pai Cheng-kuo) 白正国 *On Riemannian spaces which admit independent concircular transformations*	(62)	67
Chen Zhong-mu (Ch'en Chung-mu) 陈重穆 *An extension of Burnside's theorem*	(75)	81
Wang Guang-yin, Chen Dun-dong and Mei Duo-wen (Wang Kuang-yin, Ch'en Tun-tung and Mei To-wen) 王光寅 陈敦栋 梅多文 *On a Monge-Ampère equation of parabolic type*	(78)	85
Chen Han-lin (Ch'en Han-lin) 陈翰麟 *Quasiconformal mappings in n-dimensional space*	(93)	101
Shen Xie-chang (Shen Hsieh-ch'ang) 沈燮昌 *Completeness of the sequence of functions* $\{f(\lambda_n z)\}$	(103)	112
Deng Yao-hua and Luo Ding-jun (Teng Yao-hua and Lo Ting-chün) 邓耀华 罗定軍 *A qualitative study of the integral curves of the differential equation* $\frac{dy}{dx} = \frac{q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2}{p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2}$. III *The number of limit cycles of equations of type* I	(119)	129
Zhang Bing-gen (Chang Ping-ken) 张炳根 *Boundedness of solutions of ordinary differential equations of the second order*	(128)	139

* The names of Chinese authors are given in the Pinyin (New Latin) form, as of 1960, followed in parentheses by the Wade Giles.

	Chinese page	Page
Zhang Shang-tai (Chang Shang-t'ai) 张上泰 *On several results for certain nonlinear operators*	(137)	149
Wan Zhe-xian and Li Gen-dao (Wan Che-hsien and Li Ken-tao) 万哲先 李根道 *The two theorems of Schur on commutative matrices*	(143)	156
Su Buchin 苏步青 *On certain couples of closed Laplace sequences of period four in ordinary space* *	(151)	165
Xu Li-zhe (Hsü Li-che) 徐利治 *Correction and remark on the paper "Several iterative processes with relatively high rate of convergence"*	(175)	194
Xu Bao-lu (Hsü Pao-lu) 許宝騄 *An association scheme $M_3(6)$ which is not an L_3-scheme*	(177)	197
Number 2		
Yue Jing-zhong (Yüeh Ching-chung) 岳景中 *Homology operations. I*	(179)	199
Yue Jing-zhong (Yüeh Ching-chung) 岳景中 *Homology operations. II*	(196)	217
Cheng Bao-long (Ch'eng Pao-lung) 程宝龙 *Approximate representations and extremal problems of ϵ-quasiconformal mappings*	(212)	233
Mo Shao-kui (Mo Shao-k'uei) 莫紹揆 *Enumerative quantifiers and predicate calculus*	(218)	239
Wang Xing-hua (Wang Hsing-hua) 王兴华 *The exact constant of approximation of continuous functions by the Jackson singular integral*	(231)	254
Xia Dao-xing (Hsia Tao-hsing) 夏道行 *On locally bounded topological algebras*	(238)	261
Cheng Ping (Ch'eng P'ing) 成 平 *Minimax estimates of parameters of distributions belonging to the exponential family*	(252)	277
Chen Xi-ru (Ch'en Hsi-ju) 陈希孺 *Minimax estimates of parameter vectors of translation*	(276)	300
Ma Xi-wen (Ma Hsi-wen) 馬希文 *Feinstein's lemma for a finite system of channels*	(291)	316
Jiang Bo-ju (Chiang Po-chü) 姜伯駒 *Estimation of the Nielsen numbers*	(304)	330
Xie Ting-fan (Hsieh T'ing-fan) 謝庭藩 *On lacunary Fourier series*	(313)	340
Number 3		
Wu Cong-xin (Wu Tsung-hsin) 吳从炘 *Perfect spaces and perfect matrix rings. III*	(319)	347

* The text presented here is a facsimile of the translation from the Chinese appearing in the journal Scientia Sinica, published in Peking.

	Chinese page	Page
Ying Long-an (Ying Lung-an) 应隆安		
The general boundary value problems of quasi-linear parabolic equations	(328)	356
Xia Dao-xing (Hsia Tao-hsing) 夏道行		
On the positive definite functions on a commutative topological group with a quasi-invariant measure	(340)	369
Li Sen-lin (Li Sen-lin) 李森林		
The asymptotic stability in the large of the solutions of $\frac{dx_s}{dt} = \sum_{j=1}^{n} f_{sj}(x_j)$, $s = 1, \cdots, n$ *and applications.* I	(353)	382
Li Ji-min (Li Chi-min) 李繼閔		
The effect of the amplitudes of coefficients of holomorphic functions in the unit circle upon the schlichtness of the functions	(367)	396
Chen Liang-jin (Ch'en Liang-chin) 陈良劲		
The Dirichlet problem for a class of systems of degenerate elliptic equations	(379)	409
Yan Zhi-da (Yen Chih-ta) 严志达		
On the quasi-inner automorphisms of a semi-simple real Lie algebra	(387)	418
Zhang Qing-yu (Chang Ch'ing-yu) 张庆毓		
A group theory problem in quantum mechanics. I	(392)	424
Shen Xie-chang (Shen Hsieh-ch'ang) 沈燮昌		
On approximation of functions in the complex plane by the system of functions $\{z^{\tau_n} \log^j z\}$	(406)	439
Wang Si-lei (Wang Szu-lei) 王斯雷		
On some theorems on conjugate functions	(415)	447
Yang Le (Yang Le) 楊 乐		
The multiple values of meromorphic functions and of combinations of functions	(428)	460
Jiang Ze-pei (Chiang Tse-p'ei) 江泽培		
The prediction theory of multivariate stationary processes. II	(438)	471
Jiang Jia-he (Chiang Chia-he) 江嘉禾		
The essential component of the set of fixed points of multivalued mappings and its application to the theory of games	(451)	485
Yu Shu-xiang (Yu Shu-hsiang) 余澍祥		
On Filippov's method of proving existence and uniqueness of limit cycles	(461)	496
Zhang Li-qian and Dai Shu-sen (Chang Li-ch'ien and Tai Shu-sen) 张里千、戴树森		
On the orthogonal relations among orthomorphisms of noncommutative groups of small orders	(471)	506

Number 4

Hao Ke-gang (Hao K'o-kang) 郝克刚		
The location in the Kleene hierarchy of some fundamental predicates of constructive analysis	(481)	517
Wang Guang-yin (Wang Kuang-yin) 王光寅		
Quasilinear parabolic equations	(494)	531

	Chinese page	Page
Gu Chao-hao (Ku Ch'ao-hao) 谷超豪		
Differentiable solutions of symmetric positive partial differential equations	(503)	541
Wang Jia-gang (Wang Chia-kang) 汪嘉岡		
Properties and limit theorems of sample functions of the Itô stochastic integral	(517)	556
Liu Shao-xue (Liu Shao-hsueh) 刘紹学		
On algebras in which every subalgebra is an ideal	(532)	571
Wang Jin-ru (Wang Chin-ju) 王进儒		
Gradient methods for finding eigenvalues and eigenvectors	(538)	578
Gao Heng-shan (Kao Heng-shan) 高恆珊		
Simple completeness of the predicate calculus S_ϵ^*	(546)	588
Chen Jing-run (Ch'en Ching-jun) 陈景潤		
On the divisor problem for $d_3(n)$	(549)	591
Shen Xin-yao (Shen Hsin-yao) 沈信耀		
Higher-order cohomology operations and $\pi^n(K^{n+3})$	(559)	602
Li Sen-lin (Li Sen-lin) 李森林		
Asymptotic stability in the large of the solutions of $\frac{dx_s}{dt} = \sum_{j=1}^{n} f_{sj}(x_j)$, $s = 1, 2, \cdots, n$, *and applications.* II	(571)	615
Sun Yong-sheng and Zhang Yang-chun (Sun Yung-sheng and Chang Yang-chün) 孙永生、张阳春		
Asymptotic behavior of the best approximations of two conjugate periodic functions	(578)	623
Pan Cheng-dong (P'an Ch'eng-tung) 潘承洞		
A new application of the Ju. V. Linnik large sieve method	(597)	642
Hu Shi-hua and Yang Dong-ping (Hu Shih-hua and Yang Tung-p'ing) 胡世华、楊东屏		
On primitive recursiveness	(607)	653